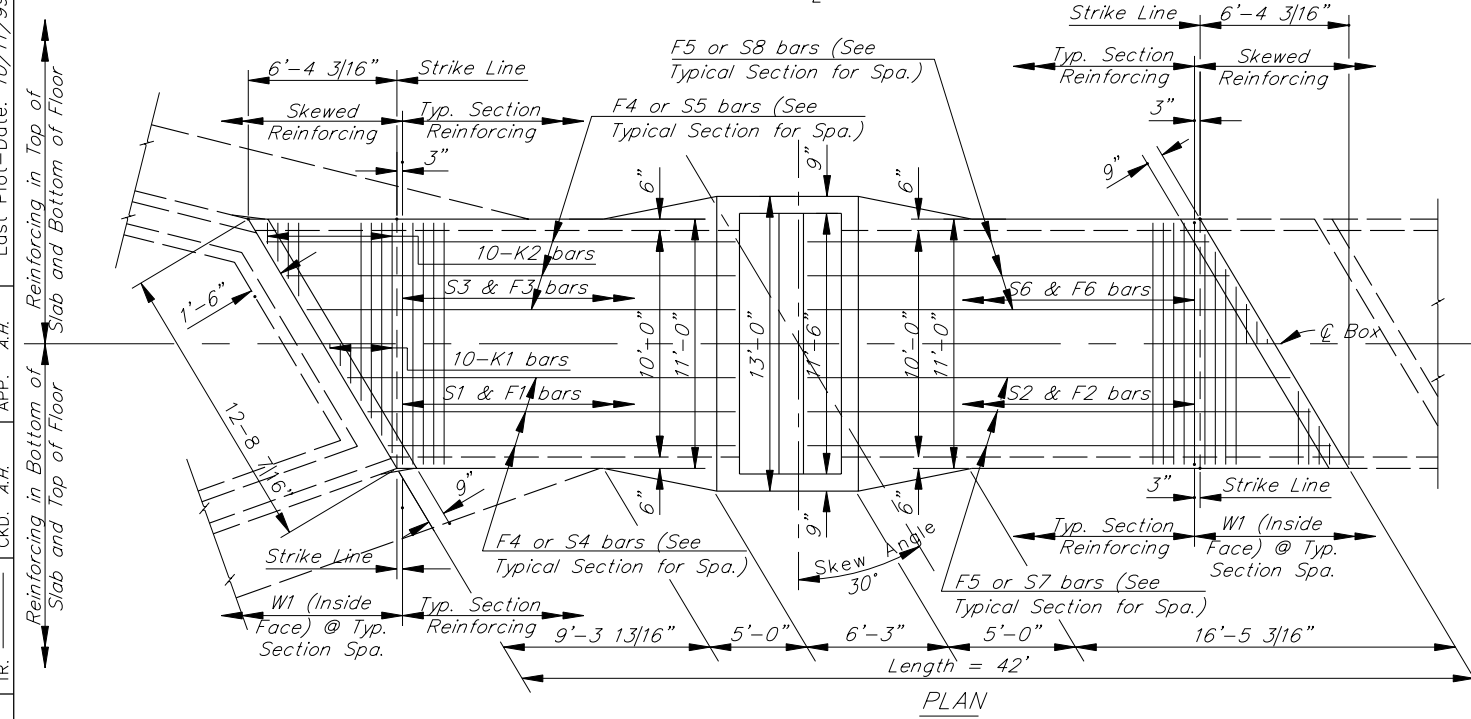
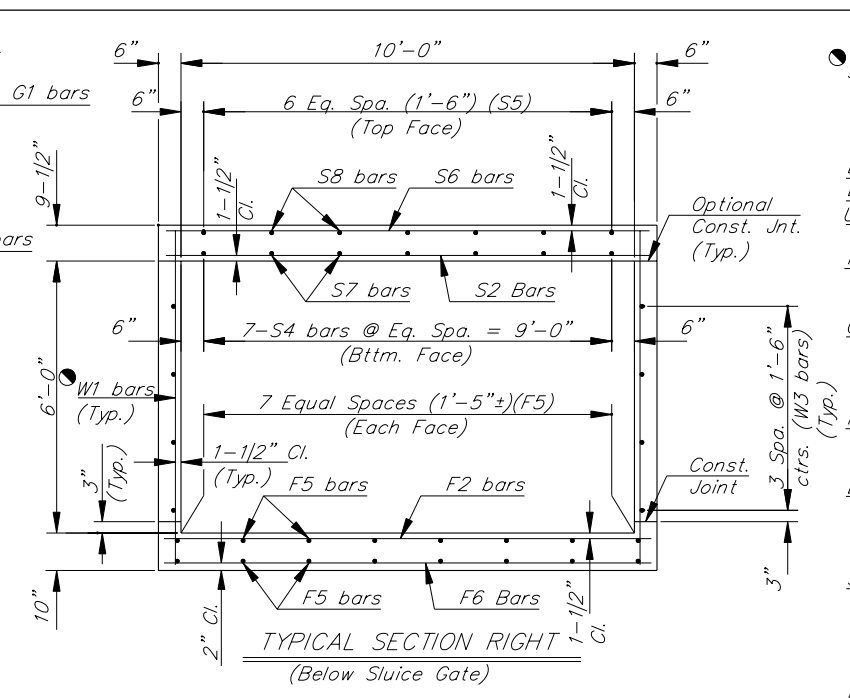


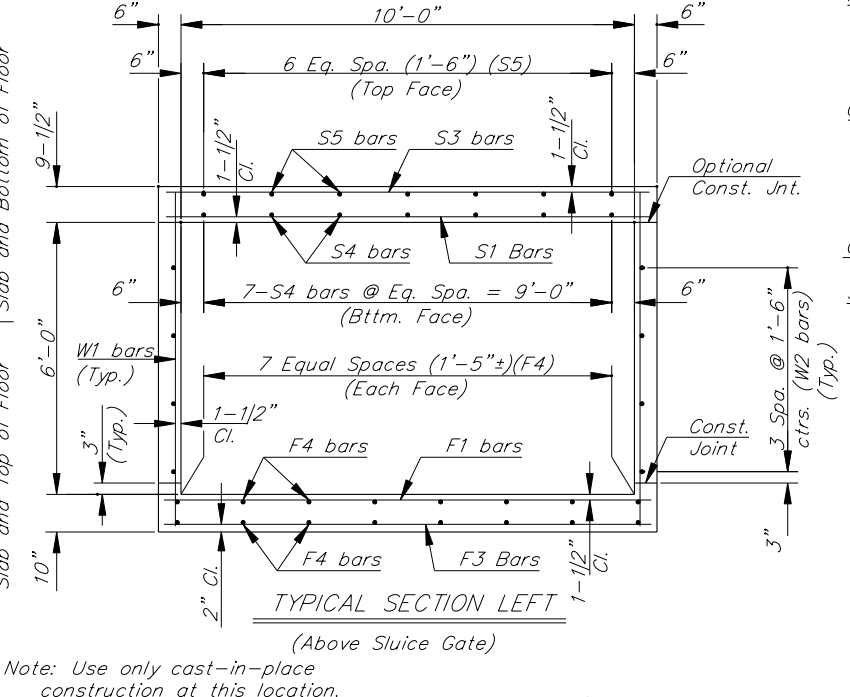
SECTION AND ELEVATION  
Normal to Q Box.



PLAN



TYPICAL SECTION RIGHT  
(Below Sluice Gate)



TYPICAL SECTION LEFT  
(Above Sluice Gate)

See RCB Auxiliary Details for Optional Splice.

GENERAL NOTES

DESIGN SPECIFICATION: AASHTO Specifications, 1983 Edition  
 DESIGN LOADING: HS20-44  
 UNIT STRESSES: Class AAA Concrete  $f'_c = 4000$  psi  
 Reinforcing Steel  $f_y = 60,000$  psi  
 FILL HEIGHT: Unless otherwise noted, the Design Fill Height is measured from the riding surface at the culvert and includes the surfacing.  
 CONCRETE: Use concrete conforming to Class AAA Concrete. Bevel all exposed edges with a 3/4" triangular molding. Where Class AAA (AE) is specified, place this concrete in the top slab above the Construction Joint.  
 REINFORCING: Use reinforcing steel conforming to ASTM A615M, Grade 60. All dimensions relative to reinforcing steel are to the centerline of the bar unless otherwise noted.  
 EXCAVATION: Excavation for culverts less than bridge length shall not be paid for directly but shall be subsidiary to Class AAA Concrete. Excavation for RCB bridges shall be paid for as Class III Excavation.  
 SEAL COURSE: The Engineer may require a seal course. The seal course shall be unreinforced Concrete (Commercial Grade) with a minimum depth of 3" or as determined by the Engineer. Concrete for the seal course shall be paid for at the unit price for Class AAA Concrete.  
 FOUNDATION STABILIZATION: The Engineer may require Foundation Stabilization. The Engineer shall determine the depth of Foundation Stabilization. Foundation Stabilization shall be paid for at the unit price set for Foundation Stabilization. See the "Auxiliary Details" sheet.  
 QUANTITIES: The quantities shown in the Culvert Summary include apron and/or soil saver quantities when they are required by the plans. Payment for additional quantities that result from including a seal course and/or a floating apron, as a change in the original plans, shall be made at the unit price bid for the various items involved.  
 GRANULAR BACKFILL (WINGWALLS): The Engineer may require special backfill procedures. See the "Auxiliary Details" sheet.  
 STRIKE LINE: Construct the wingwalls and that portion of the RCB outside the Strike Line level. Construct the wingwall footings with the culvert floor. See the wingwall detail sheets.

BENDING DIAGRAM

All Dimensions are out to out of bars.

Varies from 3'-0" to 10'-1" by 9 1/2" increments

Varies from 3'-0" to 10'-1" by 9 1/2" increments

Note: Use only cast-in-place construction at this location.

CULVERT SUMMARY

Flow Line Elev. Lt.	Flow Line Elev. Rt.	Crown Gr. Elev.	Design Fill Ht.	Skew Rt.	Left Wings	Right Wings	Scour Apron	Soil Saver	Granular Backfill	Concrete				Reinf. Steel (Gr. 60)			
										Barrel (Cu. Yds.)	Inlet Wings (Cu. Yds.)	Outlet Wings (Cu. Yds.)	Total (Cu. Yds.)	Barrel (Lbs.)	Inlet Wings (Lbs.)	Outlet Wings (Lbs.)	Total (Lbs.)
1266.32	1265.69	-	10'	30	FLARED	STRAIGHT	YES	NO	NO	59.95	8.00	3.72	71.67	9,625.89	613.56	330.94	10,570.39

BAR SCHEDULE

F1		F2		F3		F4		F5		F6		S1		S2		S3																	
Size	Spa.	No.	Length	Size	Spa.	No.	Length	Size	Spa.	No.	Length	Size	Spa.	No.	Length	Size	Spa.	No.	Length														
6	5.5"	33	10'-9"	6	5.5"	38	10'-9"	6	5.5"	33	10'-9"	4	32	11'-4"	4	32	11'-7"	6	5.5"	38	10'-9"	6	5.5"	33	10'-9"	6	5.5"	38	10'-9"	6	5.5"	33	10'-9"
S4		S5		S6		S7		S8		K1		K2		W1		W2																	
Size	No.	Length	Size	No.	Length	Size	No.	Length	Size	No.	Length	Size	No.	Length	Size	No.	Length																
4	14	11'-4"	4	14	11'-4"	6	5.5"	38	10'-9"	4	14	11'-7"	4	14	11'-7"	6	5.5"	40	*	6	5.5"	40	*	4	7.5"	114	7'-3"	4	16	11'-4"			
W3		G1		G2		G3																											
Size	No.	Length	Size	No.	Length	Size	No.	Length																									
4	16	11'-7"	5	4	12'-3"	7	4	12'-3"	7	2	12'-8"																						

\* See Bending Diagram

\* Subsidiary to Other Items

Minimum Splice Lengths	
#4	1'-4"
#5	1'-8"
#6	2'-0"

SUMMARY OF QUANTITIES

Class AAA Concrete	71.7 C.Y.
Class AAA Concrete (AE)	- C.Y.
Reinforcing Steel (Gr. 60)	10,570 Lbs.
Ladder Rungs (Galv.)	14 Ea.
Frame and Cover	1 Ea.
10'x6' Flat Back Sluice Gate Assembly	1 Ea.

See Sheet 20 for Flared Wingwalls.  
 See Sheet 21 for Straight Wingwalls.  
 See Sheets 22 and 23 for Sluice Gate.

CITY OF WICHITA

GYPSUM CREEK  
 SINGLE 10' x 6' x 42' RCB  
 (30° SKEW. RT.)  
 CITY OF WICHITA PROJ. NO.  
 PARSONS BRINCKERHOFF  
 Wichita, Kansas

SURV. - J.G. PLOT CADD DES. B.S. DR. B.S. TR. CKD. A.H. APP. A.H. Lost Plot-Date: 10/11/99